

ABSTRACT OF THE DISCLOSURE

~~Disclosed herein are~~ A liquid crystal panel of any type, ^{IS} improved in display quality by adjusting a gap size with high accuracy and uniformity, a liquid crystal display and a liquid crystal projector adopting the liquid crystal panel of the present invention. A manufacturing method for such a liquid crystal panel at a low cost with high productivity is also disclosed. The liquid crystal panel is composed generally of first and second substrates opposed to each other with a given gap defined therebetween and a liquid crystal layer filling this given gap. One surface of the first substrate adjacent to the liquid crystal layer is formed with a planarizing film having a flat surface on the liquid crystal layer side. A plurality of pixels in the form of ^Q matrix are formed on the flat surface of the planarizing film, and a light shielding region is formed between any adjacent ones of the pixels by a black ^A matrix and a signal line. A projection for defining the given gap between the first and second substrates is formed on the flat surface of the planarizing film at a position just over the black matrix so as to abut against an innermost surface of the second substrate adjacent to the liquid crystal layer. The projection is formed by a TFT process.